

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2004 (06.05.2004)

PCT

(10) International Publication Number
WO 2004/039070 A1

(51) International Patent Classification⁷: H04N 5/335

(21) International Application Number:
PCT/IB2003/004631

(22) International Filing Date: 21 October 2003 (21.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
107215 23 October 2002 (23.10.2002) BG

(71) Applicant (for all designated States except US):
MELEXIS NV [BE/BE]; Microelectronic Integrated
Systems, Rozendaalsraat 12, B-8900 Leper (BE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): KASSOVSKI, Viktor,
Vladimirov [BG/BG]; Mladost 4 bl. 458/2, Sofia (BG).

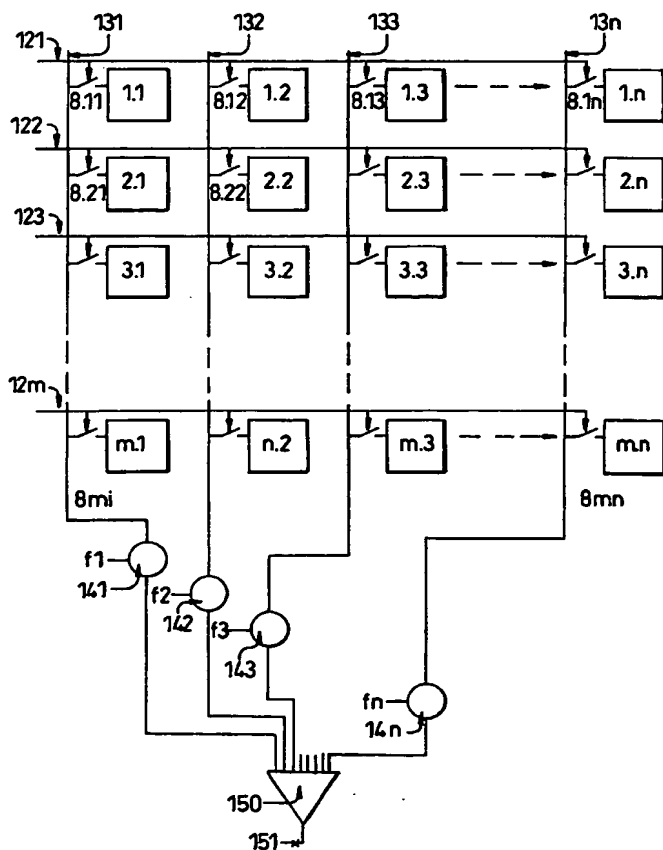
(74) Agents: HILL, Richard et al.; Wilson Gunn Skerrett,
Charles Street, 148/9 Great Charles Street, Birmingham B3
3HT (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: SENSOR ARRAY WITH AMPLITUDE MODULATED OUTPUT SIGNAL



(57) Abstract: A sensing device in the form of an image sensing array, includes photoelectric sensitive elements on a first integrated circuit and means for processing the signals on a second integrated circuit. The output of the sensing elements is sampled, amplitude modulated on to a carrier signal and transferred from the first to second integrated circuits wherein it is demodulated and passed to a processing means.



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04631

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N5/335

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 612 581 A (HARADA NOZOMU ET AL) 16 September 1986 (1986-09-16) column 5, line 11 - line 27; figures 1,7 column 7, line 12 - line 27	1,2, 7-11,20
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) & JP 2000 050304 A (AIPHONE CO LTD), 18 February 2000 (2000-02-18) abstract	1,2, 7-11,20
X	PATENT ABSTRACTS OF JAPAN vol. 0101, no. 45 (E-407), 28 May 1986 (1986-05-28) & JP 61 007779 A (TOSHIBA KK), 14 January 1986 (1986-01-14) abstract	1,2, 7-12,20
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

1 March 2004

Date of mailing of the international search report

08/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Montanari, M

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04631

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06, 31 July 1995 (1995-07-31) & JP 7 087058 A (YAGI ANTENNA CO LTD), 31 March 1995 (1995-03-31) abstract -----	3, 4

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04631

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4612581	A	16-09-1986	JP 1913396 C	09-03-1995
			JP 6040665 B	25-05-1994
			JP 60217762 A	31-10-1985
			DE 3583962 D1	10-10-1991
			EP 0161752 A2	21-11-1985
JP 2000050304	A	18-02-2000	NONE	
JP 61007779	A	14-01-1986	NONE	
JP 7087058	A	31-03-1995	NONE	